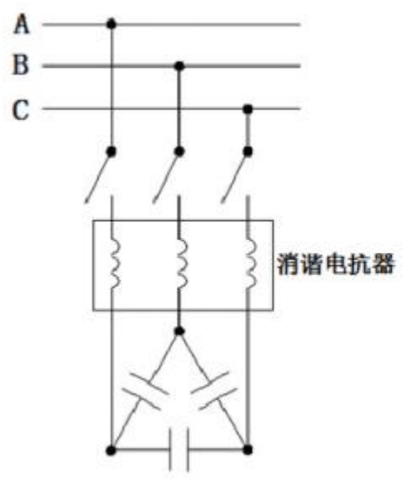
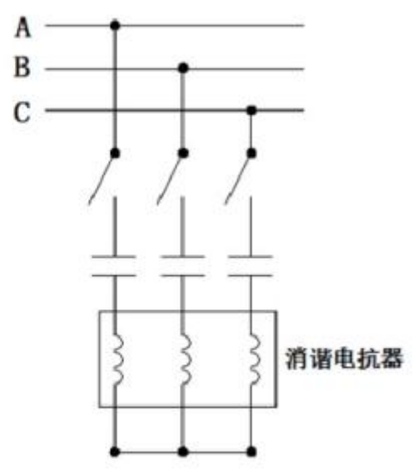
Description of the Harmonic elimination reactor

1. Product application:

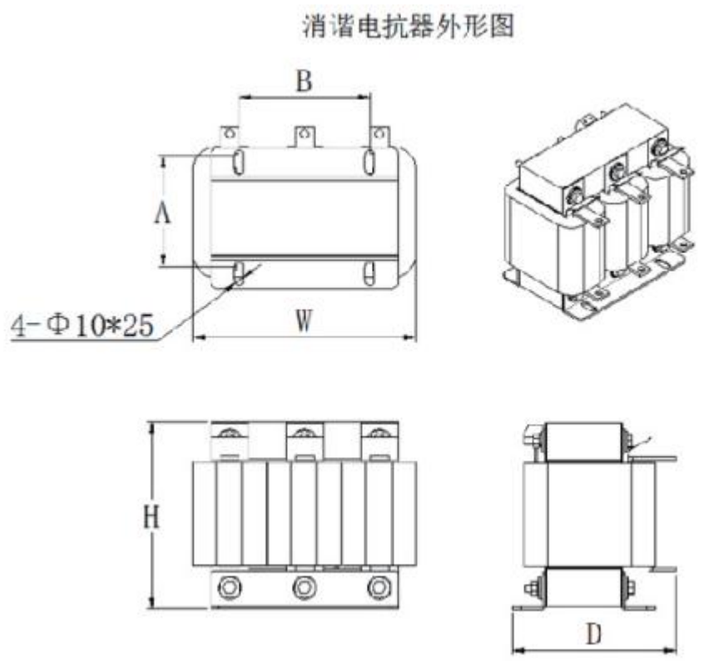
Harmonic elimination reactors, also called series reactors, are used in high and low voltage reactive power compensation systems. Generally, it is used in series with capacitors, which is capacitive at the ding frequency, and can effectively absorb and suppress the higher-order harmonics generated by capacitors, prevent the secondary harmonics from causing harm to capacitors, and avoid the capacitor device directly connected to the power grid, resulting in higher-order harmonics causing distortion to the power grid voltage, causing voltage fluctuations; At the same time with limited closing gusher; Improve the power factor of the system.

Two modes of connection of the antiharmonic reactor





2. Dimensions



3. Parameters

Model	Condenser capacity (KVAR)	Rated voltage	Reactance rate	Rated current(A)	Rated inductance（mH）	Overall dimensions W*D*H(mm)	Mounting dimension A*B(mm)
CKSG24-15/480-7LB	15	3*480V/50Hz	7%	18.05	3.42	210*155*150	105*100
CKSG24-20/480-7LB	20	3*480V/50Hz	7%	24.06	2.57	210*155*150	105*100
CKSG25-25/480-7LB	25	3*480V/50Hz	7%	30.08	2.05	245*140*200	90*120
CKSG25-30/480-7LB	30	3*480V/50Hz	7%	36.1	1.71	245*140*200	90*120
CKSG26-40/480-7LB	40	3*480V/50Hz	7%	48.13	1.28	245*140*200	90*120
CKSG27-50/480-7LB	50	3*480V/50Hz	7%	60.17	1.03	245*165*200	115*140
CKSG28-60/480-7LB	60	3*480V/50Hz	7%	72.2	0.86	245*170*200	125*140
CKSG29-70/480-7LB	70	3*480V/50Hz	7%	84.23	0.73	245*175*200	130*140
CKSG30-80/480-7LB	80	3*480V/50Hz	7%	96.27	0.64	265*175*200	125*140
CKSG31-90/480-7LB	90	3*480V/50Hz	7%	108.3	0.57	265*185*200	135*140
CKSG32-100/480-7LB	100	3*480V/50Hz	7%	120.3	0.51	265*195*200	145*140
CKSG33-30/525-14LB	30	3*480V/50Hz	14%	33	4.09	330*180*220	110*140
CKSG34-60/525-14LB	60	3*480V/50Hz	14%	66	2.04	330*190*220	135*140

Iterm	Parameters
Unbalance of three-phase inductance	≤3%
Overload capacity	1.35 times rated for 1min,1.8 times rated for 30s
insulation resistance	> 100MΩ(DC1000V)
Electric Strength	Winding to core: AC3500V/50Hz/60s, leakage current ≤ 5mA Winding to winding: AC3500V/50Hz/60s, leakage current ≤5mA
Insulation endurance class	F\H Class
Type of cooling	Dry self-cooling
temperature rise	≤90K(@1.35 times rated current)
Noise	≤65dB(power frequency, horizontal distance 1m)
Overtemperature protection	Phase B is equipped with l pcs 135°C normally closed temperature switch and connected to the terminal block

4. Product use environment

4.1 Working environment temperature: -25-40℃

4.2 Storage Temperature：-25-40℃

4.3 Working relative humidity: 95%, no condensation cream

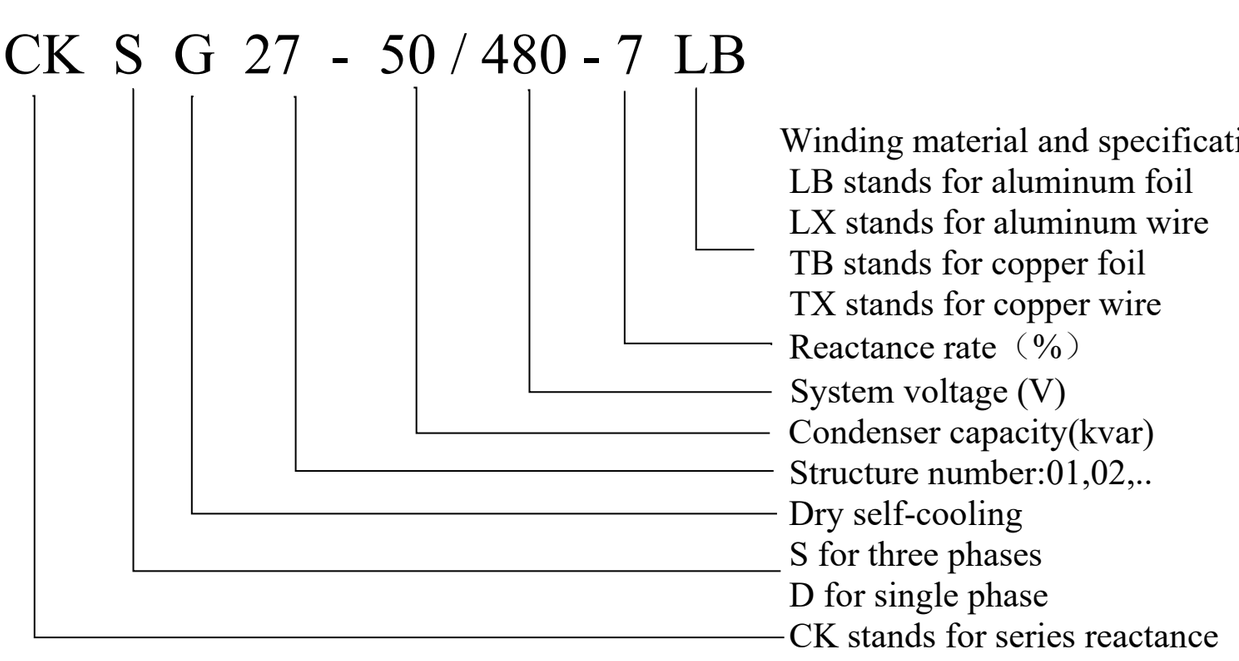
4.4 Working altitude: 2000m below

5. Product standards

5.1 IEC60076-6:2007 reactor

5.2 GB/T1094.6-2011 reactor

6. Naming rule



7. Precautions for installation and use

7.1 The reactor is installed in the cabinet, the ambient temperature does not exceed 40 paralysis, good ventilation conditions, if the ventilation conditions are poor, install exhaust facilities;

7.2 When the reactor is connected to the capacitor in series, it can be installed in the front or back end of the capacitor, and the low voltage series reactor is generally connected between the switch and the capacitor according to the field situation.;

7.3 Check the reactance before operation, whether the connecting bolts and mounting bolts are tight, and whether there are foreign objects on the reactor;

7.4 During the reactor maintenance, it is forbidden to change the core air gap and winding position;

7.5 Reactor core and metal structural parts should be reliably connected to the ground.